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AMENDMENTS TO THE CLAIMS:

Please amend the claims as set out below.

1 to 30. (Canceled)

31. (Previously presented) A pharmaceutical composition formulated for human administration and

effective in treating a neoplastic disease or eliciting an anti-tumor immunological response,

comprising:

a) a human cell expressing a cytokine from a recombinant polynucleotide; and

b) a pharmaceutical excipient;

wherein the cytokine comprises a heterologous transmembrane region and is stably associated in

the cell outer membrane, and

wherein the cell has been inactivated to prevent proliferation.

32. (Currently amended) The method of claim 31, wherein the cytokine is selected from IL-4,

GM-CSF, IL-2, TNF- α , and M-CSF.

33. (Previously presented) The composition of claim 31, wherein the cell is a cancer cell.

34. (Previously presented) The composition of claim 31, wherein the cell is from a tumor of the same

tissue type as a tumor in the human.

35. (Previously presented) A pharmaceutical composition formulated for human administration and

effective in treating a neoplastic disease or eliciting an anti-tumor immunological response,

comprising:

a) a human tumor cell expressing a cytokine from a recombinant polynucleotide, wherein the

tumor is ovarian cancer or brain cancer; and

b) a pharmaceutical excipient;

wherein the cytokine is stably associated in the cell outer membrane, and

wherein the cell has been inactivated to prevent proliferation.

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36. (Previously presented) The composition of claim 31, wherein the cell is allogeneic to the human.

37. (Previously presented) The composition of claim 31, wherein the cell is histocompatibly identical

to the human.

38. (Currently amended) The composition of any of claims 31, 65, and 66, 83, and 84, further

comprising a tumor-associated antigen, wherein the combination of the cytokine and the tumor-

associated antigen in the composition is effective in treating a neoplastic disease or eliciting an

anti-tumor immunological response in the human.

39. (Previously presented) The composition of claim 38, wherein the tumor-associated antigen is

obtained from a cell autologous to the human.

40. (Previously presented) The composition of claim 38, wherein the tumor-associated antigen is

expressed by the same cells expressing the membrane-associated cytokine.

41. (Previously presented) The composition of claim 38, comprising a combination of:

a) the cell expressing the membrane-associated cytokine; and

b) a tumor cell autologous to the human;

wherein the combination is effective in treating a neoplastic disease or eliciting an anti-tumor

immunological response in the human.

42. (Previously presented) The composition of claim 41, wherein the tumor cell is a primary tumor

cell dispersed from a solid tumor obtained from the human.

43. (Currently amended) A pharmaceutical composition formulated for human administration and

effective in treating a neoplastic disease or eliciting an anti-tumor immunological response,

comprising:

a) a human cell expressing a cytokine from a recombinant polynucleotide, wherein the

cytokine is stably associated in the cell outer membrane, and the cell has been inactivated to

prevent proliferation;

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b) a pharmaceutical excipient; and

c) a tumor cell autologous to the human selected from a glioma, a glioblastoma, a

gliosarcoma, an astrocytoma, or an ovarian and an ovarian cancer cell;

wherein the combination is effective in treating a neoplastic disease or eliciting an anti-tumor

immunological response in the human.

44. (Previously presented) The composition of claim 41, wherein the tumor cell has been inactivated

by irradiation.

45. (Previously presented) The composition of claim 31, wherein the cell expressing the membrane-

associated cytokine has been inactivated by irradiation.

46. (Previously presented) The composition of claim 31, wherein the cell produces a secreted cytokine

in addition to the cytokine stably associated in the outer membrane.

47. (Previously presented) The composition of claim 31, wherein a majority of the cytokine produced

by the cell is present on the outer membrane of the cell.

48. (Currently amended) The method of claim 38, wherein the cytokine is selected from IL-4,

GM-CSF, IL-2, TNF-α, and M-CSF.

49. (Canceled)

50. (Previously presented) A unit dose of the composition according to claim 31, wherein the number

of cells in the composition is at least about 5×10^6 but not more than about 2×10^8 .

51. (Canceled)

52. (Previously presented) The composition of claim 43, wherein the cytokine naturally occurs as a

membrane cytokine.

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53. (Currently amended) The composition of any of claims 43, 65, and 66 and 65, wherein the

cytokine is a fusion protein comprising a heterologous transmembrane region.

54. (Previously presented) The composition of claim 31, wherein the cell has been transduced in vitro

with a retroviral expression vector, or is the progeny of such a cell.

55. (Previously presented) A method for producing the composition of claim 31, comprising

transducing the cell in vitro with an expression vector encoding the membrane-associated

cytokine.

56. (Previously presented) The method of claim 55, wherein the expression vector is a retroviral

vector.

57. (Currently amended) The method of claim 55, wherein the cytokine is selected from IL-4,

GM CSF, IL-2, TNF- α , and M-CSF.

58. (Previously presented) The method of claim 55, wherein the cytokine is expressed under control of

a cytomegalovirus (CMV) promoter.

59. (Previously presented) The method of claim 55, wherein the cell is from a cancer of the same

tissue type as a tumor in the human.

60. (Previously presented) The method of claim 55, wherein the cell is allogeneic to the human.

61. (Previously presented) The method of claim 55, wherein the cell is histocompatibly identical to the

human.

62. (Previously presented) A method for producing the composition of claim 38, comprising

transducing a cell in vitro with an expression vector encoding the membrane-associated cytokine,

and providing the transduced cell in combination with the tumor-associated antigen.

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63. (Previously presented) The method of claim 55, further comprising inactivating the cell to prevent proliferation.

64. (Previously presented) The method of claim 55, further comprising irradiating the cell.

65. (Previously presented) A pharmaceutical composition formulated for human administration and

effective in treating a neoplastic disease or eliciting an anti-tumor immunological response,

comprising:

a) a human cell expressing an IL-4 from a recombinant polynucleotide; and

b) a pharmaceutical excipient;

wherein the IL-4 is stably associated in the cell outer membrane, and

wherein the cell has been inactivated to prevent proliferation.

66. (Previously presented) A pharmaceutical composition formulated for human administration and

effective in treating a neoplastic disease or eliciting an anti-tumor immunological response,

comprising:

a) a human cell expressing a GM-CSF from a recombinant polynucleotide; and

b) a pharmaceutical excipient;

wherein the GM-CSF is stably associated in the cell outer membrane, and

wherein the cell has been inactivated to prevent proliferation.

67. (Previously presented) The composition of claim 31, wherein the cytokine is M-CSF.

68. (Previously presented) The composition of claim 31, wherein the composition has been

formulated for administration to an allogeneic human subject.

69. (Currently amended) The composition of claim 68, wherein the cytokine is selected from IL-4,

GM CSF, IL-2, TNF- α , and M-CSF.

70. (Previously presented) The composition of claim 68, wherein the cell is a cancer cell.

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71. (Previously presented) The composition of claim 68, wherein the cell is from a tumor of the same

tissue type as a tumor in the human.

72. (Previously presented) The composition of claim 68, further comprising a tumor-associated

antigen, wherein the combination of the cytokine and the tumor-associated antigen in the

composition is effective in treating a neoplastic disease or eliciting an anti-tumor immunological

response in the human.

73. (Previously presented) The composition of claim 72, wherein the tumor-associated antigen is

obtained from a cell autologous to the human.

74. (Previously presented) The composition of claim 72, wherein the tumor-associated antigen is

expressed by the same cells expressing the membrane-associated cytokine.

75. (Previously presented) The composition of claim 72, comprising a combination of:

a) the cell expressing the membrane-associated cytokine; and

b) a tumor cell autologous to the human;

wherein the combination is effective in treating a neoplastic disease or eliciting an anti-tumor

immunological response in the human.

76. (Previously presented) The composition of claim 75, wherein the tumor cell is a primary tumor

cell dispersed from a solid tumor obtained from the human.

77. (Previously presented) The composition of claim 68, wherein the cell expressing the membrane-

associated cytokine has been inactivated by irradiation.

78. (Previously presented) A method for producing the composition of claim 68, comprising

transducing the cell in vitro with an expression vector encoding the membrane-associated

cytokine.

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79. (Previously presented) The method of claim 78, wherein the expression vector is a retroviral

vector.

80. (Previously presented) The method of claim 78, further comprising inactivating the cell to prevent

proliferation.

81. (Previously presented) The method of claim 78, further comprising irradiating the cell.

82 (Previously presented) The composition of claim 31, wherein the number of cells in the

composition is at least about 5×10^6 .

83. (New) The composition of claim 31, with the proviso that said cytokine is not GM-CSF.

84. (New) A pharmaceutical composition formulated for human administration and effective in

treating a neoplastic disease or eliciting an anti-tumor immunological response, comprising:

a) a human cell expressing a cytokine from a recombinant polynucleotide; and

b) a pharmaceutical excipient;

with the proviso that said cytokine is not M-CSF;

wherein the cytokine is stably associated in the cell outer membrane, and

wherein the cell has been inactivated to prevent proliferation.

85. (New) The method of claim 84, wherein the cytokine is selected from IL-4, GM-CSF, IL-2, and

TNF-α.

86. (New) The composition of claim 84, wherein the cell is a cancer cell.

87. (New) The composition of claim 84, wherein the cell is from a tumor of the same tissue type as a

tumor in the human.

88. (New) The composition of claim 41, wherein the tumor cell has been inactivated by irradiation.

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89. (New) The composition of claim 84, wherein the cell expressing the membrane-associated cytokine has been inactivated by irradiation.

90. (New) The composition of claim 84, wherein the cell produces a secreted cytokine in addition to the cytokine stably associated in the outer membrane.